

MAPK3, 1-379aa, Human, His tag, E.coli

Cat.NO.: TP02905

3th Edition

Synonyms:Mitogen-activated protein kinase 3, ERK1, HS44KDAP, HUMKER1A, P44ERK1, P44MAPK, PRKM3, MAP kinase3

Description:MAPK3 is a member of the MAP kinase family. MAP kinases, also known as extracellular signalregulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This protein is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl,1mM DTT

Molecular Weight:45.2 kDa (399aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMAAAAQGGGGGEPRRTEGVGPGVPGEVEMVKGQPFVDVGPRTQLQYIGEGA
YGMVSSAYDHVRKTRVAIKKISPFEHQTYCQRTLREIQILLRFRHENVIGIRDILRASTLEAMRDVYIVQDLMETDLYK
LLKSQQLSNDHICYFLYQILRGLKYIHSANVLHRDLKPSNLLINTTCDLKICDFGLARIADPEHDHTGFLTEYVATR
WYRAPEIMLNSKGYTKSIDIWSVGCILAEMLSNRPIFPKGHYLDQLNHILGILGSPSQEDLNCIINMKARNYLQSLPSKTK
VAWAKLFPKSDSKALDLLDRMLTFNPNKRITVEEALAHYPYEQYYDPTDEPVAEEPFTFAMELDDLPKERLKE
LIFQETARFQPGVLEAP

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.